

TEAM SELF EVALUATION REPORT

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TEAM ACHIEVEMENTS :

- In-depth learning of every aspect of Data-Mining.
- Got a hands-on experience for handling categorical data.
- Learned python from scratch since we didn't have any prior experience.
- Since it was complete categorical nominal data we got to know about all the encoding methods as well as methods on which research is going on.
- Learned about various libraries in python for various purpose eg. visualization, analysis, and others.
- Got to know about various interesting data science websites and research papers.
- We learned about GitHub of which we were earlier unfamiliar.
- We too learned about team coordination.

TEAM MEMBERS CONTRIBUTION:

1. Akshit:

- Data Cleaning
- Data Visualization
 - Implementation of various libraries such as folium, seaborn,matplotlib, etc.
 - folium library was a great experience to know about map-related analysis.
 - Normalization of data(z score,max-min)
 - Different encoding methods (one-hot encoding, weights of evidence, feature hashing).
 - Heatmap and pivot graph for correlation visualization.
- Applied k-means but it wouldn't help much since the dataset was categorical.
- Applied Boxplot and z-score for outlier analysis.

2. Hritik Singh Kushwah:

→ Data Reduction

- Implementation of PCA algorithm and its analysis.
- Implementation and analysis of different methods for correlation of categorical data(i.e Cramer's V)
- Applying Attribute Subset Selection for reducing the data.

→ Association Analysis

3. Smiket Barodia:

→ Implementation of MCA algorithm and its analysis.

→ Clustering

- Implementation of DBSCAN, K- prototype, k-medoids.

→ Outlier Analysis

-Implementation of AVF, AEVF, Entropy-based outlier detection algorithms.

Although everyone has helped each other in one form or another and everyone is familiar with every code of the python booklet.